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Field Service Procedure

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Modification of Selectatec Vapor Mount on Fabius GS

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Modification of Selectatec Vapor Mount on Fabius GS

Installation Procedure

This document contains warning and caution statements about the Selectatec vapor mount.

- *Warning* statements provide inportant information which, if ignored could lead directly to a patient's injury.
- *Caution* statements provide important information which, if ignored could lead directly to equipment damage and indirectly to a patient's injury.

The following warnings apply to general operation and maintenance of the anesthesia machine. Warnings and cautions about installing and operating specific parts appear with those topics.

Warning: This device must be serviced only by an authorized representative of Draeger Medical, Inc. Refer any servicing to qualified service personnel.

Warning: Any person involved with the setup, okperation, or maintenance of the Fabius GS anesthesia machine must be thoroughly familiar with the instruction manual for this product.

NOTE: The following procedure shall only be performed on Fabius GS units equipped with a Selectatec vaporizer mounting system.

This modification raises the Selectated vapor mount one inch to provide increased clearance for vaporizer filling.

Installation Procedure (continued)

1. Inspect the Selectatec Vapor Mount Kit to verify that it contains the following:

Item	Part Number
Bar, Selectatec Mount	4117733
Plate, Adapter	4117734
Scr, cap skt hd M5 x 20 (2x)	HW01126
Lock Washer, split (2x)	HW65003
11/16 in. drill bit	4117738
Loctite 271	4116897

2. Set the machine power switch to ON (⊙).

3. Deplete all reserve cylinder and pipeline pressures.

Note: Vaporizers do not need to be drained prior to the following step.

Warning: DO NOT tilt any vaporizer more than 45 degrees at any time.

4. Remove all vaporizers from the machine.

5. Disconnect all pipeline hoses from the gas inlet assembly at the rear of the machine.

6. Set the power switch to OFF (○).

7. Remove the back panel from the gas box.

8. Disconnect the wire harness from the O2 supply pressure alarm switch and the ground wire connected to the gas inlet assembly.

9. Make a note of the pneumatic connections to the gas inlet assembly, and their destinations. Identify and label tubing (see Figure 1) to ensure proper reassembly.

Installation Procedure (continued)

10. Disconnect the following tubing from the gas inlet assembly. See Figure 1.

    P1 (N2O pipeline pressure gauge)
    P2 (Air pipeline pressure gauge)
    P3 (O2 pipeline pressure gauge)
    P4 (N2O cyl reg output check valve)
    P5 (N2O flow control valve)
    P6 (Air flow control valve)
    P7 (O2 flow control valve)
    P8 (O2 T-fitting)

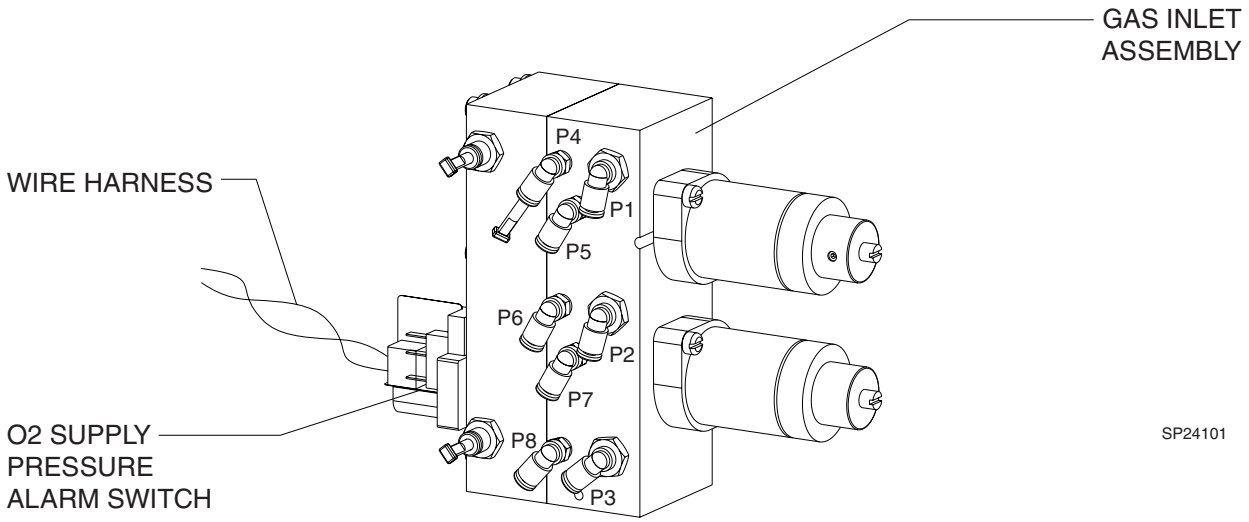

FIGURE 1. Gas Inlet Assembly

11. Disconnect both pneumatic lines connected to the rear of the vapor block. See Figure 2.

Installation Procedure (continued)

12. Cover the open pneumatic lines and position them away from the area to prevent entry of debris.

13. Note the orientation of the fittings at the rear of the vapor block for later re-assembly, then remove the fittings from the vapor block.

14. Remove the hardware securing the vapor block to the gas box, and remove the vapor block.

15. Remove all residual thread sealant from the compression fitting, and from the internal threads of the vapor block. Take care to prevent entry of thread sealant into the vapor block when cleaning.

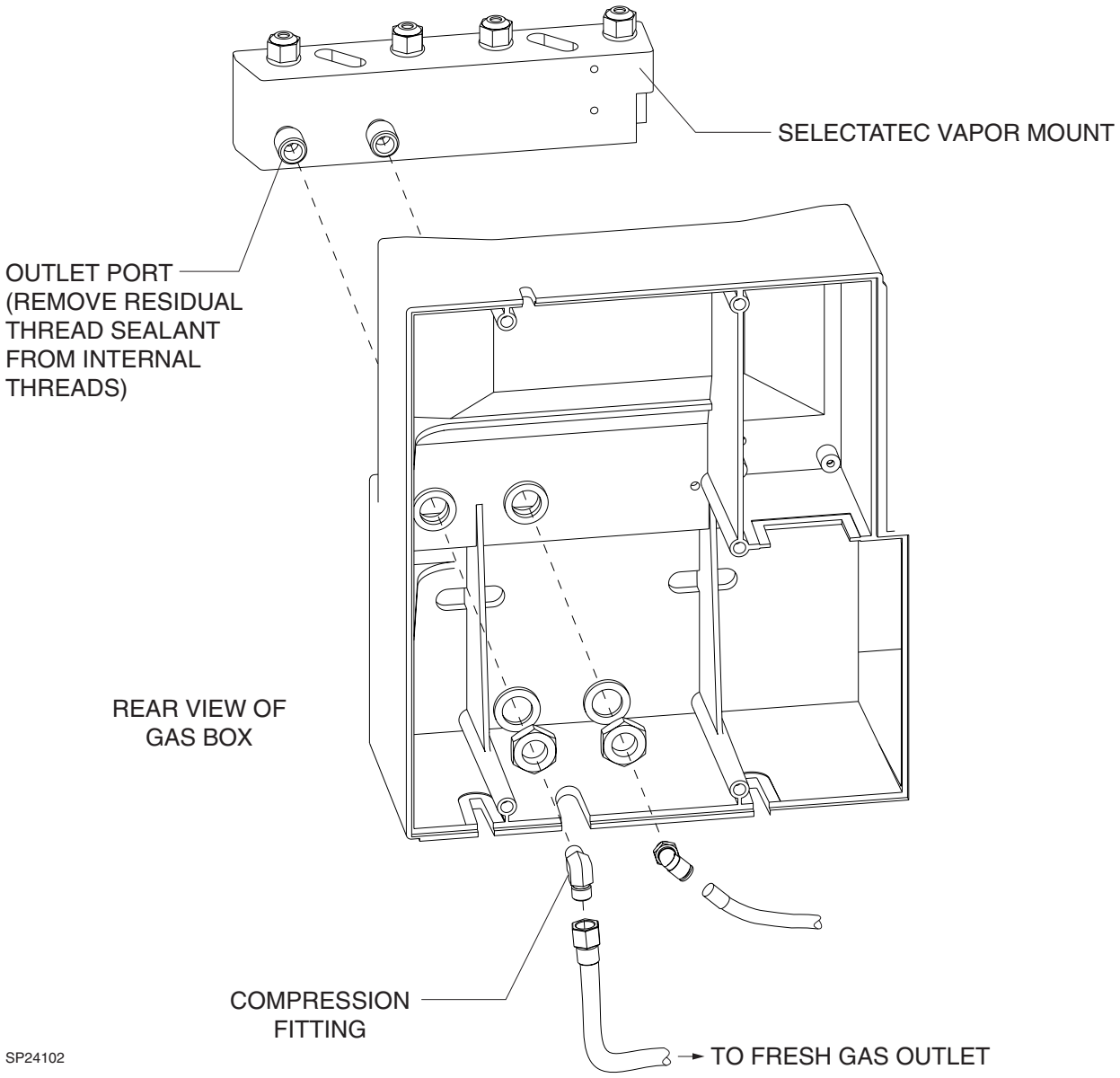

FIGURE 2. Disassembly

Installation Procedure (continued)

16. Cut out the drill template found at the end of this procedure, and tape it to the back of the adapter plate so that the circles on the template are aligned with the large holes in the adapter plate, and their center lines are visible and centered.

17. Place the adapter plate on the vapor block mounting shelf at the front of the gas box. Ensure that the bottom right corner of the adapter plate is held against the lower right corner of the vapor block mounting shelf as shown in Figure 3.

18. Carefully mark the center of each vapor port position with a center punch, and remove the adapter plate.

Caution: Use proper safety equipment, including eye protection before proceding to the next step.

19. Using the 11/16 in. drill bit supplied, carefully drill the locations marked in the previous step. Thoroughly clean all drill chips from inside and outside of the machine.

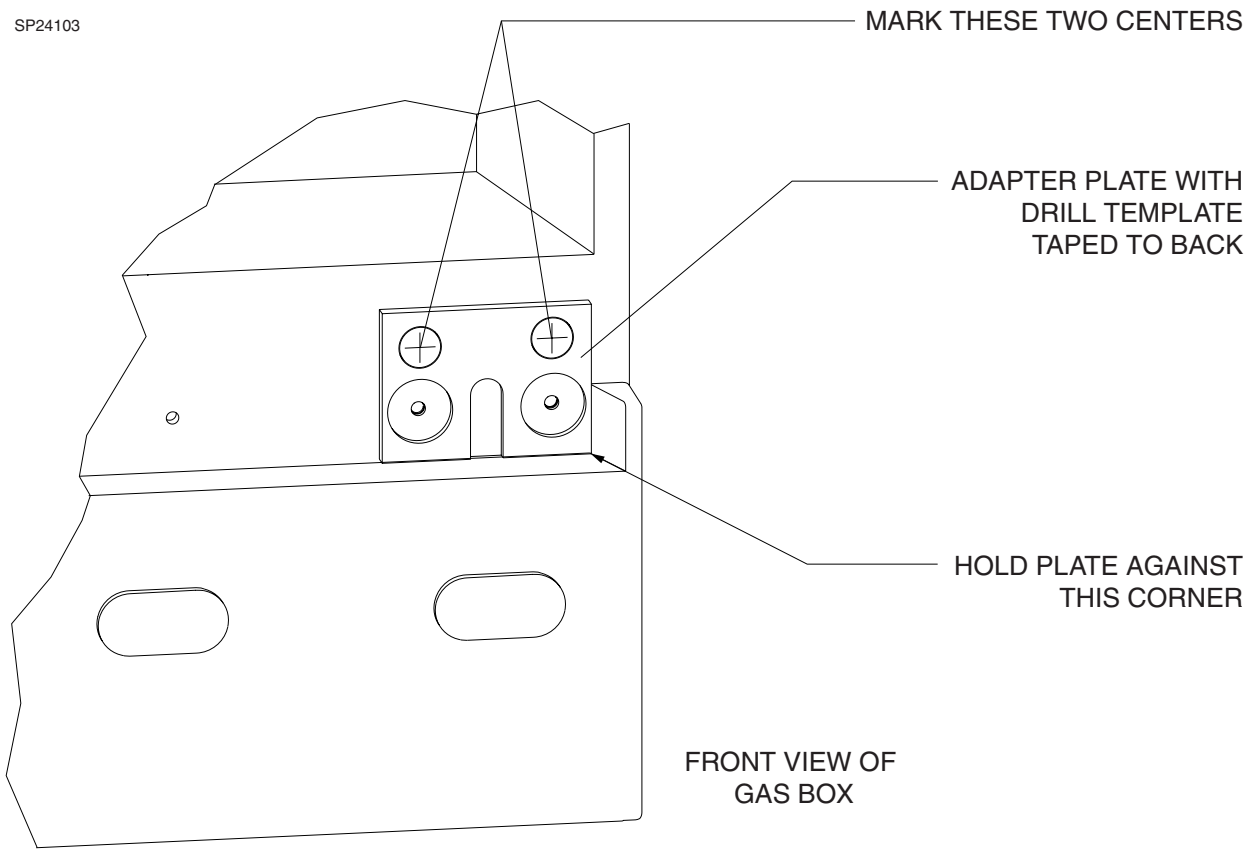

FIGURE 3. Vapor Port Drilling

Installation Procedure (continued)

20. Hold the vapor spacer block on the vapor shelf, and place the Selectatec vapor mount on top of the block. The ports at the back of the vapor mount should project through the holes drilled in the previous step. Make any adjustments needed to ensure a proper fit.

21. Assemble the vapor spacer block and adapter plate (remove the drilling template) to the gas box with two M5 x 20 skt hd screws and #10 lock washers. Be sure the adapter plate is oriented as shown in Figure 4. Do not tighten the screws yet.

22. Install the Selectatec vapor mount, and secure it with the original hex nuts and lock washers.

    Tighten all hardware when the parts are aligned and seated correctly.

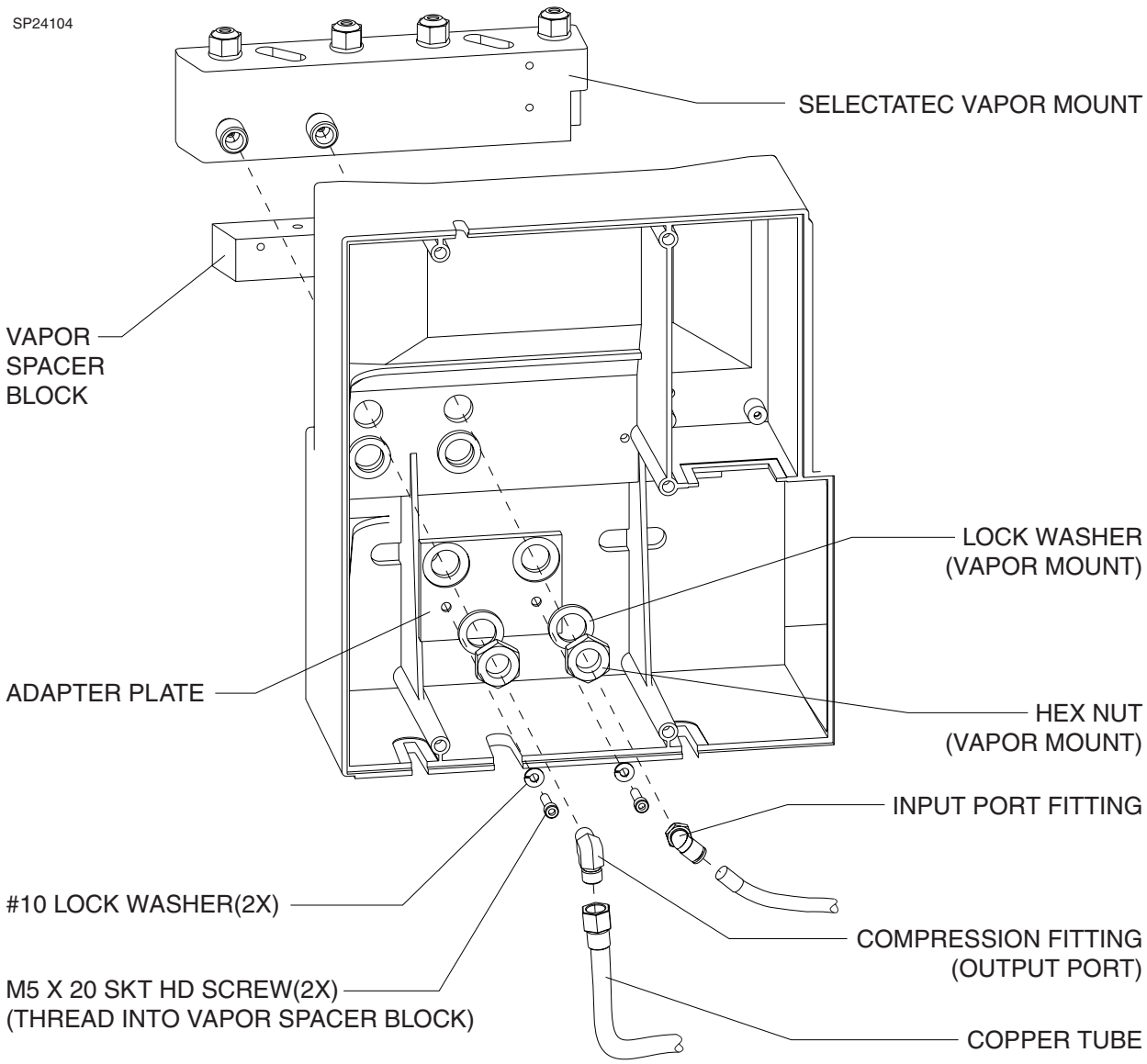

FIGURE 4. Vapor Mount Assembly

Installation Procedure (continued)

23. Apply an ample amount of Loctite 271 (supplied) to the compression fitting threads, and install the fitting in the output vapor port as shown in Figure 4. Final position of the fitting shall face down.

24. Install the remaining fitting in the input vapor port and tighten. Thread sealant is not needed on this fitting.

25. Reconnect the pneumatic line to the fitting installed in the previous step. Do not connect the copper tube to the output port fitting yet.

26. Reconnect the pneumatic hoses, ground wire, and O2 supply switch wire harness to the gas inlet assembly. Position the assembly in a secure location and do not reinstall at this time.

27. Reconnect the pipeline hoses to the gas inlet assembly and pressurize the system.

28. Set the machine power switch to ON (⊙).

29. Set all gas flows to 10 L/min. Rapidly occlude then release the opening of the output vapor port to expel any residual debris in the vapor block.

30. Set all gas flows to zero. Reconnect the copper tube to the compression fitting on the vapor port. Do not over-tighten.

31. Reinstall the back panel and gas inlet assembly on the rear of the machine.

32. Verify the four vapor mount O-rings are in good condition.

33. Install the vaporizer(s) on the vapor mount and lock in position.

34. Perform a complete PMS procedure on the machine as given in Section 7 of the Fabius GS Service Manual.

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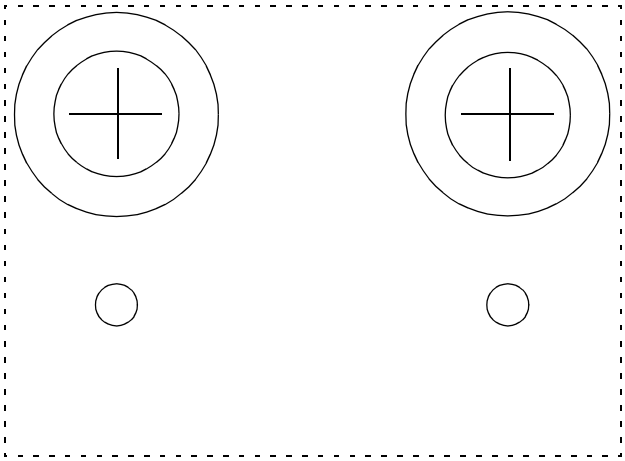
Drill Template:



Cut out on dotted line and tape to rear of adapter plate to aid in marking hole locations.

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